

changed by this amendment, showing all changes made relative to the previous version of the claim(s), accompanies this paper on a separate sheet or sheets.

1. A rare-gas low-pressure discharge lamp for generating ultraviolet light, in particular for cosmetic or therapeutic purposes, with a discharge vessel which is filled with a gas consisting of at least one rare gas, the discharge vessel being at least partly transparent to UV light, the discharge vessel being at least partly coated with a phosphor which radiates UV light when excited by UV excitation radiation produced in the discharge vessel.

2. A lamp as claimed in claim 1, characterized in that the excitation radiation produced in the discharge vessel has wavelengths in the VUV range.

3. A lamp as claimed in claim 1, characterized in that the discharge vessel is filled with xenon or neon.

4. A lamp as claimed in claim 1, characterized in that the discharge vessel is at least partly made of a glass, preferably of

a glass having a transmissivity of 20 to 70% for light of 312.6 nm wavelength.

5. A lamp as claimed in claim 1, characterized in that the phosphor is formed such that less than 1% of the light radiated thereby under the excitation of an excitation radiation produced in the discharge vessel has wavelengths below 290 nm.

6. A lamp as claimed in claim 1, characterized in that the phosphor is formed such that between 1% and 10% of the light radiated thereby upon excitation with an excitation radiation produced in the discharge vessel has wavelengths between 290 and 320 nm.

7. A lamp as claimed in claim 1, characterized in that the phosphor is formed such that less than 5% of the light radiated thereby upon excitation by an excitation radiation produced in the discharge vessel has wavelengths above 400 nm.

8. A lamp as claimed in claim 1, characterized in that the phosphor comprises at least one luminescent material, preferably a combination of luminescent materials, chosen from the following

group of luminescent materials: $\text{BaSi}_2\text{O}_5\text{:Pb}$ (BSP), $\text{CeMgAl}_{11}\text{O}_{19}$ (CAM), $\text{LaPO}_4\text{:Ce}$ (LAP), $\text{SrB}_4\text{O}_7\text{:Eu}$ (SBE), $(\text{Sr},\text{Ba})\text{MgSi}_2\text{O}_7\text{:Pb}$ (SMS).

9. A lamp as claimed in claim 1, characterized in that a UV-light reflecting layer, in particular a layer comprising MgO and/or Al_2O_3 , is provided on portions of the discharge vessel.

10. A lamp as claimed in claim 1, characterized in that the discharge vessel is not tubular in shape.

11. A lamp as claimed in claim 10, characterized in that two of the three dimensions of the discharge vessel, in particular its length and width, are substantially greater than its third dimension, in particular its thickness.

12. A lamp as claimed in claim 10, characterized in that the discharge vessel is adapted to the contours of a surface to be irradiated with the lamp.

REMARKS

Claim 1 has been amended to call for the fill to consist of at least one rare gas. Support for this limitation may be found on page 3, line 2 of Applicants' specification.